CLAIMS

1. A hermetic compressor comprising a hermetic container that accommodates a compressing element and oil,

the compressing element comprising:

a cylinder;

a piston reciprocating in the cylinder; and

a valve plate that seals an opening end of the cylinder and has a discharge valve system at the outer side of the cylinder;

the discharge valve system comprising:

a discharge hole formed in the valve plate;

a valve seat provided on the outer side of the valve plate around the discharge hole;

a pedestal formed substantially in the same height as the valve seat on the outer side of the valve plate;

a plate contact portion formed at a position higher than the valve seat on the outer side of the valve plate;

a discharge reed made of a plate spring material and including an opening/closing portion covering the discharge hole in a way capable of opening and closing thereof and a discharge reed holding portion fixed to the pedestal;

a spring reed made of a plate spring material, which includes a spring reed holding portion fixed to the pedestal and a movable portion and is provided at the outer side of the discharge reed; and

a stopper including a stopper holding portion fixed to the pedestal and a regulation portion and is provided at the outer side of the spring reed;

wherein the spring reed has a spring reed bending portion and a tip

portion in the movable portion, the spring reed is bent toward a direction of the valve seat at the spring reed bending portion, and the tip portion is brought into contact with the plate contact portion.

2. The hermetic compressor according to claim 1, wherein the discharge reed includes a discharge reed bending portion between the discharge reed holding portion and the opening/closing portion; and the discharge reed is bent toward a direction of the valve seat at the discharge reed bending portion.

3. The hermetic compressor according to claim 2, wherein a concave portion whose bottom surface is lower than the valve seat and the pedestal is formed between the valve seat and the pedestal on the outer surface of the valve plate, and a position of the discharge reed bending portion is provided at the outer side of the concave portion.

4. The hermetic compressor according to any of claims 1 to 3, wherein the stopper has a stopper contact portion bending toward the side of the spring reed in the regulation portion.

5. A hermetic compressor comprising:

a cylinder;

a piston reciprocating in the cylinder; and

a valve plate that seals an opening end of the cylinder and has a discharge valve system at the outer side of the cylinder;

the discharge valve system comprising:

a valve seat provided on the outer side of the valve plate around a hole penetrating through the valve plate;

a pedestal formed in the same height as the valve seat on the outer side of the valve plate;

a plate contact portion formed at a higher position than the valve seat on the outer side of the valve plate;

a first plate spring fixed to the pedestal at one end and being capable of covering the hole at another end;

a second plate spring provided at the outer side of the first plate spring, fixed to the pedestal at one end and reaching the plate contact portion at another end, and bent toward the direction of the valve seat in a middle portion; and

a stopper fixed to the pedestal at one end and covering the second plate spring.

6. The hermetic compressor according to claim 5, wherein a concave portion whose bottom surface is lower than the valve seat and the pedestal is formed between the valve seat and the pedestal on the outer surface of the valve plate, and the second spring is bent at a point outer side of the concave portion.